

## Garant

### Solid carbide torus cutter, uncoated, Ø h6 DC / R1: 16/3,0mm



#### Order data

Order number	206192 16/3,0
GTIN	4045197853158
Item class	11X

#### Description

##### Version:

**Eccentric relief ground**, additionally **polish ground** in the flutes for **outstanding chip evacuation** in long-chipping aluminium workpieces.

Tolerances:

##### · Corner radius

**$R_1 = 0.5$  tolerance  $\pm 0.02$ .**

**$R_1 > 0.5 - 1.5$  tolerance  $\pm 0.03$ .**

**$R_1 > 1.5$  tolerance  $\pm 0.05$ .**

Dimensions to manufacturer's standard.

#### Technical description

Corner radius $R_1$	3 mm
Overall length L	150 mm
Shank Ø $D_s$	16 mm
Overhang length $L_1$ incl. recess	100 mm
Balance quality with shank	G 2.5 with HA
Cutting edge Ø $D_c$	16 mm
No. of teeth Z	3
Flute length $L_c$	25 mm
Recess Ø $D_1$	15 mm
Feed $f_z$ for side milling in short-chipping aluminium	0.09 mm

Shank	DIN 6535 HA to h6
Feed $f_z$ for copy milling in short-chipping aluminium	0.1 mm
Helix angle	45 degrees
Coating	uncoated
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	W
Tolerance nominal $\varnothing$	h6
Direction of infeed	horizontal, oblique and vertical
Cutting width $a_e$ for milling operation	0.05×D for copy milling
Cutting width $a_e$ for milling operation	0.3×D for side milling
Through-coolant	no
Shank tolerance	h6
Colour ring	yellow
Type of product	Torus cutter

## User data

	Suitability	$V_c$	ISO code
Aluminium	Suitable	130 m/min	N
Aluminium (short chipping)	suitable	100 m/min	N
Alu > 10% Si	suitable	80 m/min	N
PMMA acrylic	Suitable	130 m/min	N
PE-HD	Suitable	90 m/min	N
PA 66	Suitable	100 m/min	N
PEEK	Suitable	90 m/min	N
PF 31	Suitable	80 m/min	N
Cu	Suitable	70 m/min	N
CuZn	Suitable	90 m/min	N

wet maximum	suitable
wet minimum	Suitable only under restricted conditions
dry	suitable only under restricted conditions
Air	suitable only under restricted conditions
<b>Services</b>	
Shank grinding Type HB	129100 HB